HW-D350

Crystal Surround Air Track

(Active Speaker System)

user manual

imagine the possibilities

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SAMSUNG

features

Active Speaker System

This unit features an Active Speaker System that provides high sound quality in a single slim unit.
This unit does not require any satellite loudspeakers or speaker cabling, which are normally associated with conventional surround sound systems.

Multi-function Remote Control

The supplied remote control can be used to control the TV connected to this unit.
The remote control has a TV hotkey that enables you to perform various operations with the simple press of a button.

Special Sound mode

You can select from 7 different sound modes (MUSIC, NEWS, DRAMA, CINEMA, SPORTS, GAME, PASS (Original Sound)) depending on the type of content you want to enjoy.

Compatibility with various audio Technologies

This unit employs decoders compatible with Dolby Digital and DTS (Digital Theater Systems).

- Dolby Digital

  This is the standard audio signal format used on DVDs and other purely digital media.
  This surround technology delivers high-quality digital audio of up to 5.1 discrete channels to produce a directional and more realistic effect.

- DTS (Digital Theater Systems)

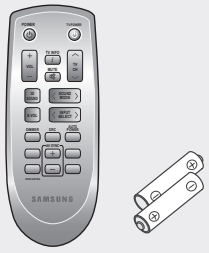
  DTS provides a discrete 5.1 CH digital audio signal for both music and movie content and uses less compression than Dolby Digital for richer sound.

3D Depth Sound

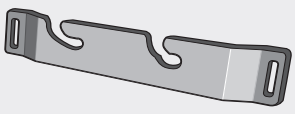
The 3D sound feature adds depth and spaciousness to your listening experience.

WHAT'S INCLUDED

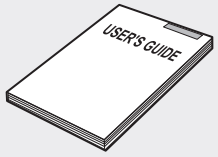
Check for the supplied accessories below.



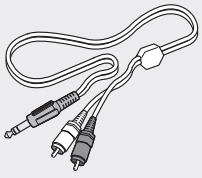
Remote Control / Batteries (AAA size)
(AH59-02378A/ 4301-000116)



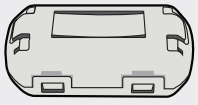
Bracket-Wall Mount
(AH61-02952A)



User Manual
(AH68-02341W)



Audio Cable
(AH39-01077A)



(For Audio cable 1EA)

Toroidal Ferrite Core
(3301-001068)

▪ The accessories may look slightly different than those pictured above.

safety information

SAFETY WARNINGS

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
The lighting flash and Arrowhead within Triangle Is a warning sign alerting you of dangerous voltage Inside the product	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	The explanation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

CAUTION

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution : FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

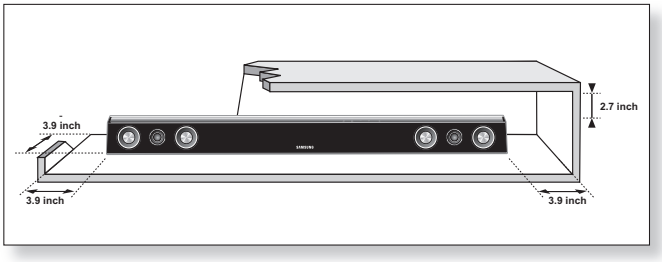
Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

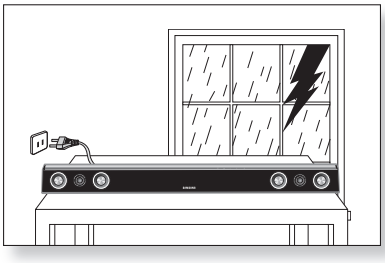
1) Read these instructions.
2) Keep these Instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachment/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

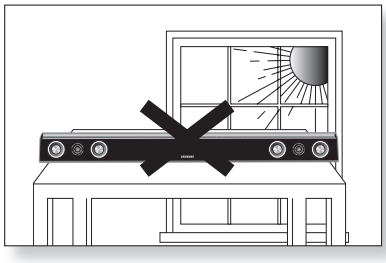
PRECAUTIONS



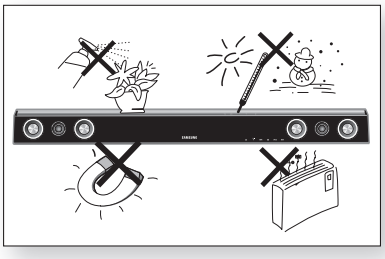
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your product. Install your product horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4 inches). Make sure the ventilation slots are not covered. Do not place the unit on amplifiers or other equipment which may become hot. This unit is designed for continuous use. In order to disconnect the unit completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect the AC main plug from the wall outlet. Voltage peaks due to lightning could damage the unit.

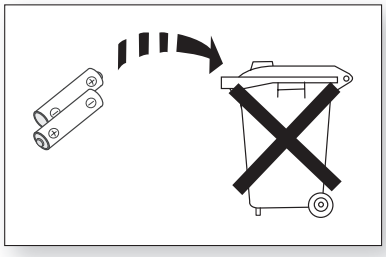


Do not expose the unit to direct sunlight or other heat sources. This could lead to overheating and malfunction of the unit.



Protect the product from moisture (i.e. vases) , and excess heat (e.g.fireplace) or equipment creating strong magnetic or electric fields Disconnect the power cable from the AC supply if the unit malfunctions. Your product is not intended for industrial use. Use of this product is for personal use only.

Condensation may occur if your product has been stored in cold temperatures. If transporting the unit during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The batteries used with this product contain chemicals that are harmful to the environment.

Do not dispose of batteries in the general household trash.

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getting started

BEFORE READING THE USER'S MANUAL

Make sure to check the following terms before reading the user manual.

Icons that will be used in manual

Icon	Term	Definition
	Caution	This involves a case where a function does not operate or settings may be canceled.
	Note	This involves tips or instructions on the page that help each function operate.

About the use of this user's manual

1) Be sure to be familiar with Safety Instructions before using this product. (See page 4)
2) If a problem occurs, check the Troubleshooting. (See page 17)

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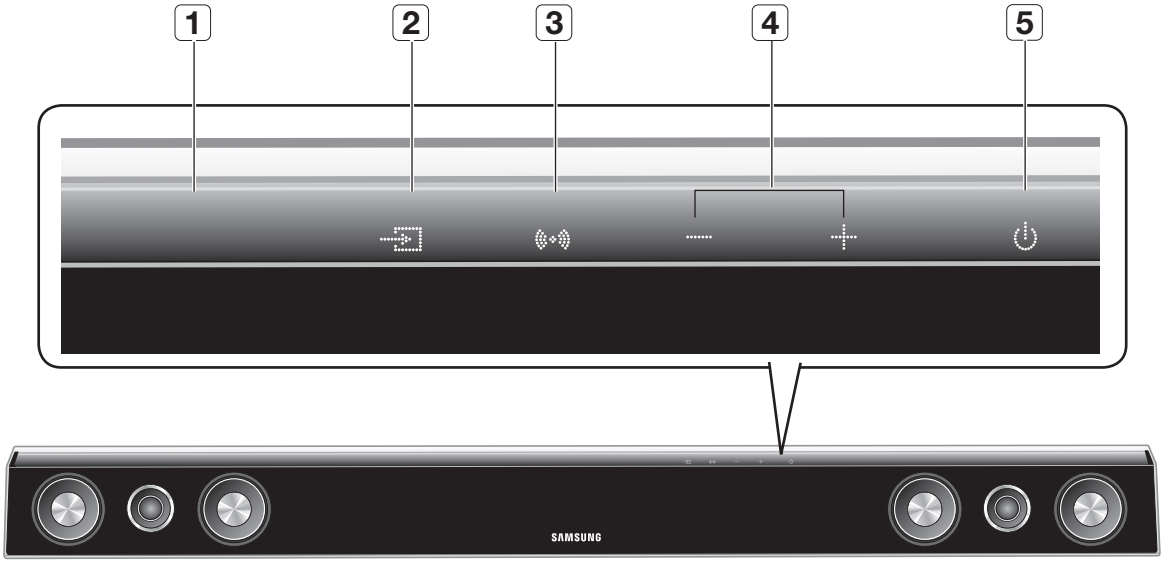
descriptions

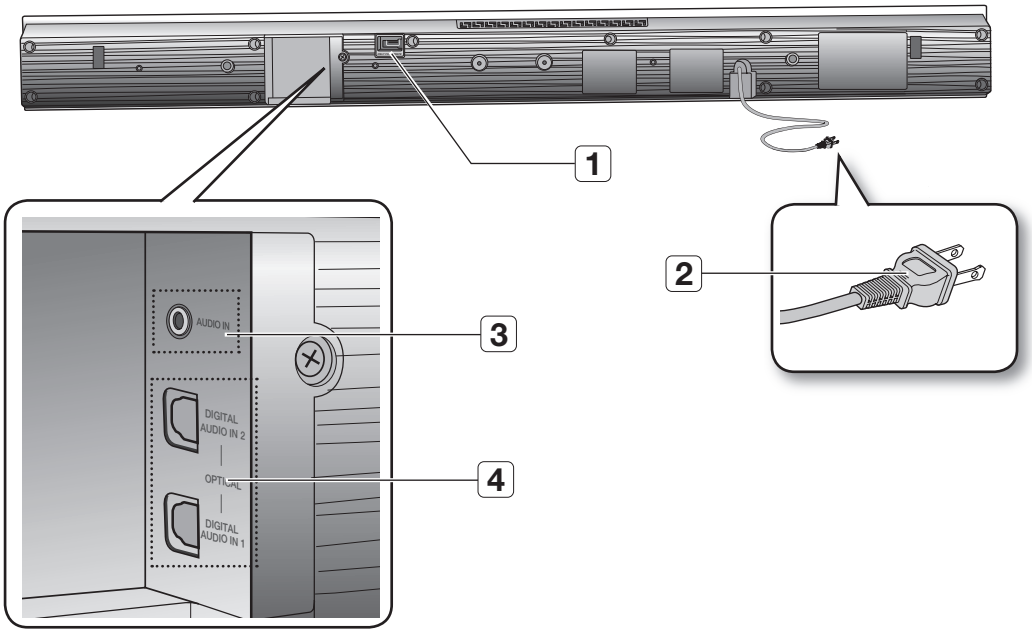
FRONT PANEL



1	**DISPLAY**	Displays the current mode.
2	**INPUT MODE**	Selects the Optical, Audio input.
3	**SOUND MODE**	Selects the sound mode. (MUSIC, NEWS, DRAMA, CINEMA, SPORTS, GAME, PASS (Original Sound))
4	**VOLUME +/-**	Controls the volume level.
5	**POWER BUTTON**	Turns the Crystal Surround Air Track on and off.

- When you turn on the power of this unit, there will be a 4 to 5 second delay before it reproduces sound.

REAR PANEL



1	USB PORT	You can update this unit's software through the USB port.
2	POWER SUPPLY CABLE	Plug the power supply cable into the AC wall outlet.
3	AUDIO IN JACK	Connect to the analog output of an external device.
4	OPTICAL DIGITAL IN 1,2	Connect to the digital (optical) output of an external device.

- When disconnecting the power cable from the wall outlet, hold the plug. Do not pull the cable.
- Do not connect this unit or other components to the main power until all connections between components are complete.

remote control

TOUR OF THE REMOTE CONTROL

POWER BUTTON
Turns the Crystal Surround Air Track on and off.

TV INFO
Use this to display the TV channel information.

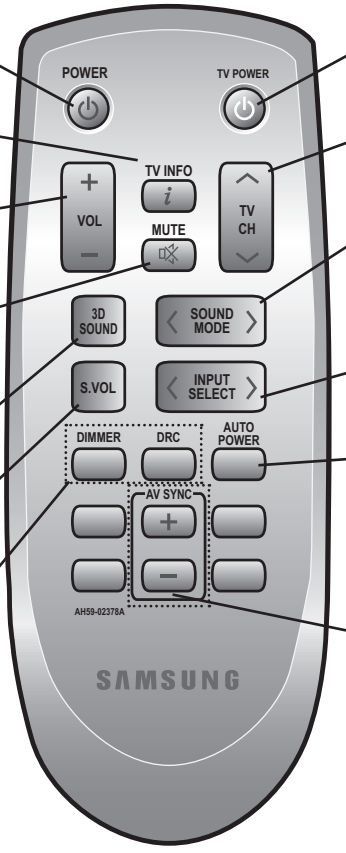
VOLUME
Adjusts the volume level of the unit.

MUTE
Mutes the sound from the unit. Press again to restore the sound to the previous volume level.

3D SOUND
This feature adds depth and spaciousness to the sound.

SMART VOLUME
Regulates and stabilizes the volume level against a drastic volume change.

DIMMER, DRC
You can control the brightness of the Display.
You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night (Standard, MAX, MIN).



TV POWER BUTTON
Turns your Samsung TV on and off.

TV CHANNEL
Switches between the available TV channels.

SOUND MODE
Selects the sound mode. (MUSIC, NEWS, DRAMA, CINEMA, SPORTS, GAME, PASS (Original Sound))

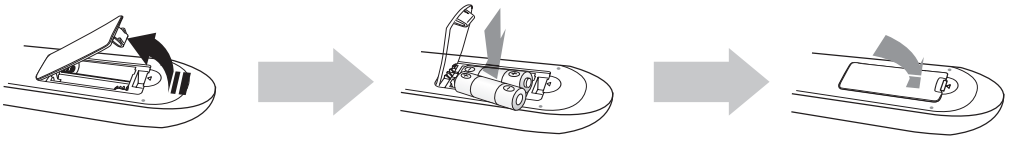
INPUT SELECT
Selects the Digital (Optical), the Audio input.

AUTO POWER
Synchronizes the Air Track via Optical connection via the Optical jack so it turns on automatically when you turn on your TV.

AV SYNC
Used to help sync video to audio when connected to a digital TV.

- The remote control can operate TVs made by SAMSUNG only.
- Depending on the TV you are using, you may not be able to operate your TV with this remote control. In this case, operate the TV using the TV's remote control.

Installing batteries in the Remote Control



1. Lift the cover at the back of the remote control upward as shown.
2. Install two AAA size batteries. Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.
3. Replace the cover. Assuming typical TV usage, the batteries last for about one year.

Operation Range of the Remote Control

The remote control can be used up to approximately 23 feet (7 meters) in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.

connections

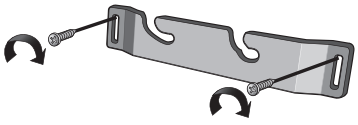
INSTALLING THE WALL MOUNT

You can use the wall mount bracket to mount this unit on a wall.

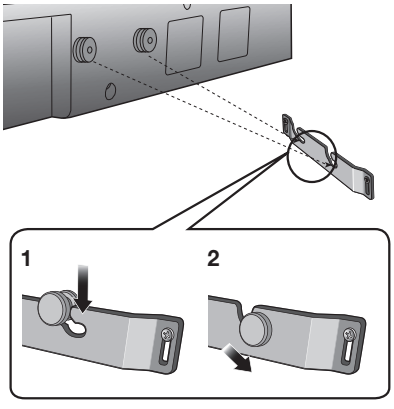
Installation Precautions

- Do not install on a place other than a vertical wall.
- For the installation, avoid a location with high temperature or humidity, or wall that cannot sustain the weight of the set.
- Check the strength of the wall. If the strength of the wall is insufficient for the product installation, make sure to reinforce the wall before the installation.
- Check the material of the wall. If the wall is made of plaster board, marble, or iron board, purchase and use the appropriate fixing screws.
- Cables connecting to external devices need to be connected to the set before installing.
- Be sure to turn off and unplug the unit before installation. Otherwise, it may cause electric shock.

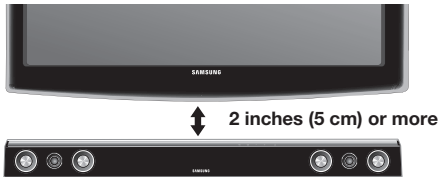
1. Place the wall mount bracket on a wall surface and then secure it with two screws (not supplied).



2. Then, fit the unit into the corresponding slots of the wall mount bracket. For secure installation, make sure the mounting studs slide firmly down into the bottom of the slots.



3. This is the completion of the suggested wall mount installation.

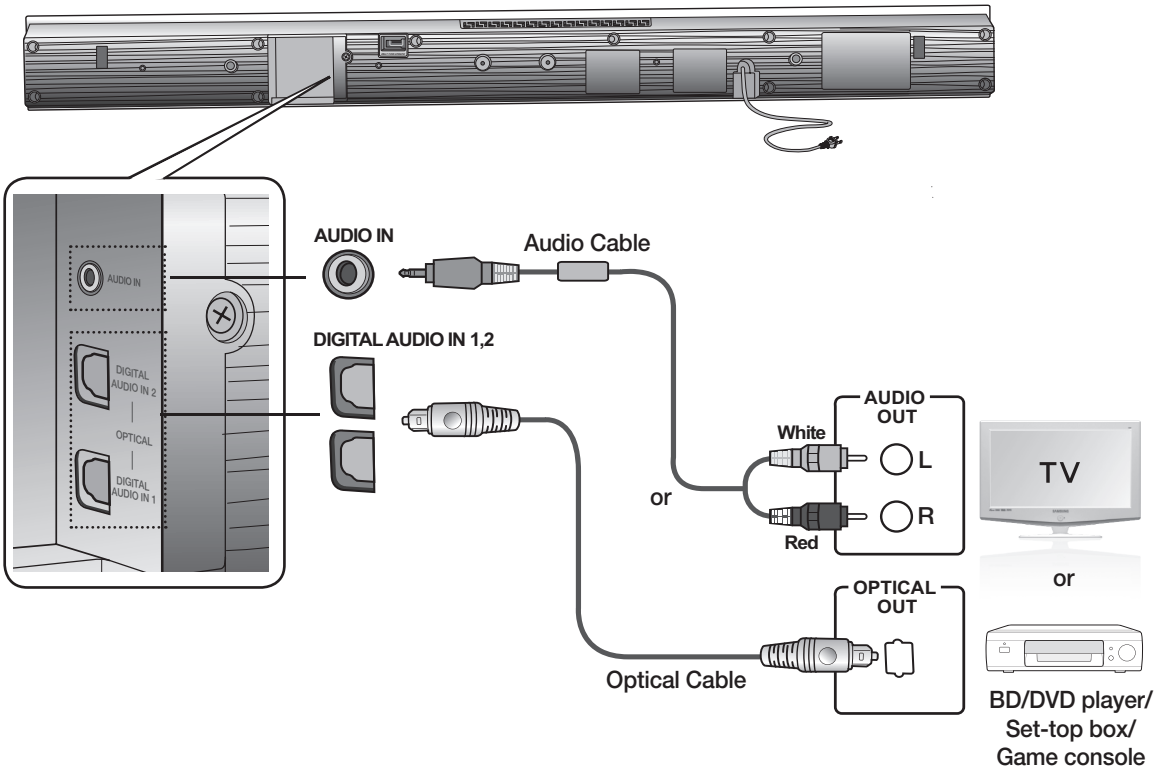


- Do not hang onto the installed unit and avoid any impact to the unit.
- Secure the unit firmly to the wall so that it does not fall off. If the unit falls off, it may result in an injury or damage to the product.
- When the unit is installed on a wall, please make sure that a child does not pull any of connecting cables, as it may cause it to fall.
- For the optimal performance in a wall mount installation, keep the speaker system at least 2 inches (5 cm) distant from the TV.

CONNECTING THE CRYSTAL SURROUND AIR TRACK

This section explains two ways (digital and analog) of connecting the unit to the TV.

This unit is equipped with two optical digital jacks and one audio analog jack for connecting a TV.



AUDIO IN

Connect AUDIO IN on the main unit to the AUDIO OUT of the TV or Source Device.
Be sure to match connector colors.

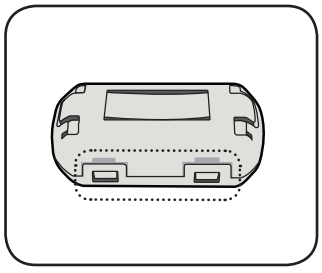
or,

OPTICAL DIGITAL IN 1,2

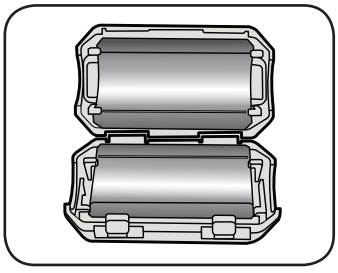
Connect the Digital Input on the main unit to the OPTICAL OUT of the TV or Source Device.

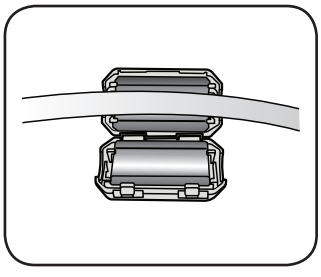
- Do not connect the power cord of this product or your TV to the wall outlet until all connections between components are complete.
- Before moving or installing this product, be sure to turn off the power and disconnect the power cord.
- If you select 'ANALOG' without connecting the Audio Cable, the set is turned off automatically after 20 minutes.
- If a TV or any device connected to Air Track with the optical cable is off and there is no digital input, the Air Track is turned off after 20 minutes. (If there has been no input signal for over 20 minutes from DIGITAL AUDIO IN 1 or 2, the Air Track will be turned off.)

INSTALLING FERRITE CORE TO AUDIO CABLE

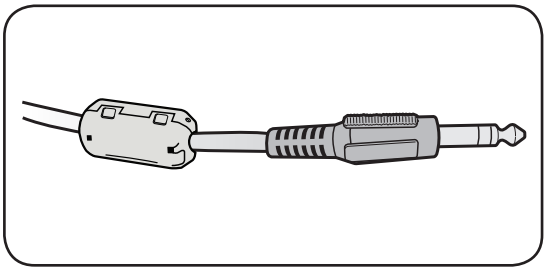


Lift up to release the lock and open the core.



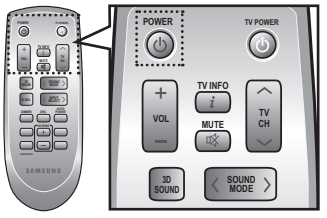


Place the audio cable on the opened core.



Close the lock back.

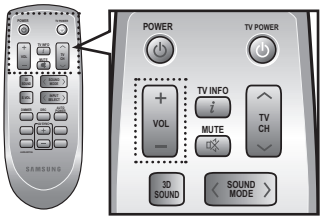
BASIC FUNCTIONS



Turning the power on/off

1. Touch **POWER** (⏻) on the front panel.
or,
Press **POWER** on the remote control to turn on the power.

2. Touch **POWER** (⏻) on the front panel.
or,
Press **POWER** on the remote control again to turn off the power.



Adjusting the volume

Touch **VOLUME +/–** on the front panel.

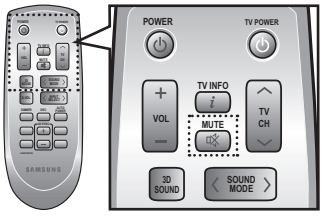
or,

Press **VOLUME +/–** on the remote control to increase or decrease the volume level.

- The numeric value of the volume level appears in the front panel display.

- The volume level increases or decreases when you press VOLUME +/–.
- If you want to enjoy the sound only from the Crystal Surround Air Track, you must turn off the TV's speakers in the Audio Setup menu of your TV. Refer to the owner's manual supplied with your TV.

ADVANCED FUNCTIONS

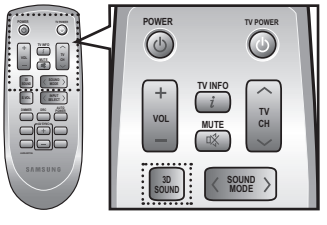


Muting the sound

This is useful when answering a doorbell or telephone call.

1. Press **MUTE** (🔇) on the remote control to mute the sound.

2. Press **MUTE** on the remote control again (or press **VOLUME +/–**) to restore the sound.



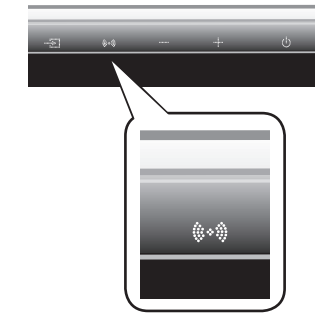
Using the 3D Depth Sound function

The 3D sound feature adds depth and spaciousness to the sound by using **3D SOUND** button.

Press **3D SOUND** on the remote control.

- Each time the button is pressed, the selection changes as follows :
  3D SOUND ON ➡ 3D SOUND OFF

- When you turn on the 3D Depth Sound, the Sound Mode will automatically change to PASS.



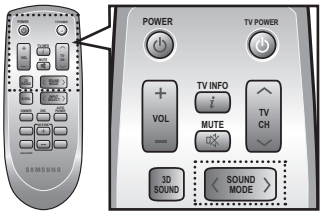
Using the sound mode

You can select from 7 different sound modes (MUSIC, NEWS, DRAMA, CINEMA, SPORTS, GAME, PASS (Original Sound)) depending on the type of sources you want to enjoy.

Press **SOUND MODE** on the remote control ‹,› or touch **SOUND MODE** (🔊) on the front panel repeatedly to select the sound mode you want.

- Select **PASS** mode if you want to enjoy the original sound.

- It is recommended that you select a Sound Mode based on the source material and your personal taste.
- When you choose the Sound Mode (except PASS), the 3D Depth Sound will automatically be turned OFF.



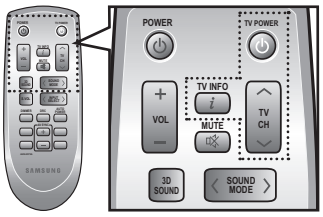
Using the TV functions

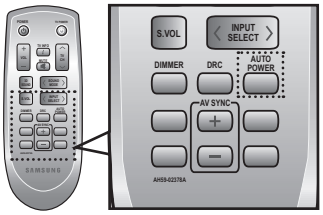
1. Press **TV POWER** on the remote control of this unit.

2. Press **TV INFO** on the remote control to display the TV channel information.

3. Press **TV CH** on the remote control to select the TV channel.

- The remote control can operate TVs made by SAMSUNG only.





Using the AUTO POWER LINK function

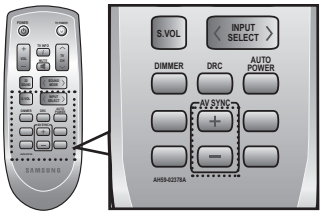
The Crystal Surround Air Track is automatically turned on when you turn the power on of a TV or any device connected to the Air Track with the optical cable.

Press **AUTO POWER** on the remote control of this unit.

- Auto power link function turns on and off each time you press **AUTO POWER.**

AUTO POWER LINK	Display
ON	POWER LINK ON
OFF	POWER LINK OFF

- If a TV or any device connected to Air Track with the optical cable is off and there is no digital input, the Air Track is turned off after 20 minutes.

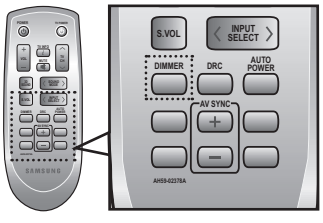


Using the AV SYNC function

Video may look slower than the audio if it is connected with digital TV.
If this occurs, adjust the audio delay time to match the video.

Press **AV SYNC +/–**. button on the remote control of this unit.

- You can use + , - button to set the audio delay time between 0 ms and 300 ms.

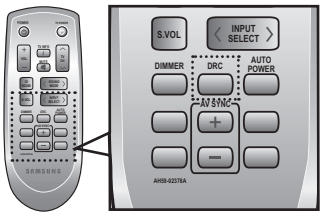


Using the DIMMER function

This feature control the brightness of the Display.

Press **DIMMER** on the remote control of this unit.

- Each time the button is pressed, the selection changes as follows : DIMMER ON ➡ DIMMER OFF

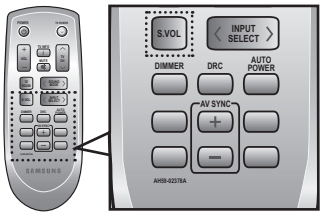


Using the DRC function

This feature balances the range between the loudest and quietest sounds. You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.

Press **DRC** on the remote control of this unit.

- Each time the button is pressed, the selection changes as follows : DRC MIN ➡ DRC STANDARD ➡ DRC MAX

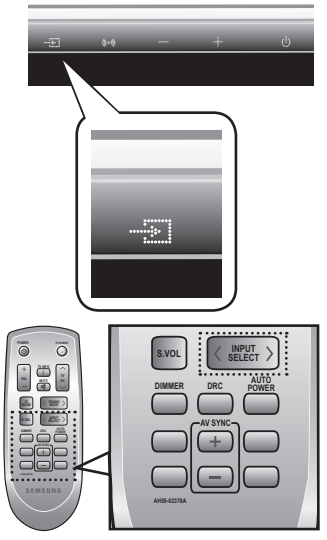


Using the S.VOLUME function

This will regulate and stabilize the volume level against a drastic volume change in case of a channel change or scene transition.

Press **S.VOL** on the remote control of this unit.

- Each time the button is pressed, the selection changes as follows : SMART VOLUME ON ➡ SMART VOLUME OFF



Using the input mode

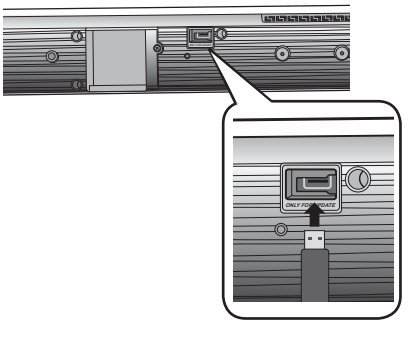
You can select either Optical Digital, Audio input or W.iPod input.

Press **INPUT SELECT** on the remote control ‹,› or touch **INPUT SELECT** ( ) on the front panel repeatedly to select the Optical Digital, Audio input.

Input mode	Display
Optical Digital input	DIGI.1
	DIGI.2
Audio input	ANALOG

SOFTWARE UPGRADE

Samsung may offer upgrades for the Crystal Surround Air Track's system's firmware in the future. Please visit Samsung.com or contact the Samsung call center to receive information about downloading upgrades and using a USB drive. Upgrades will be possible by connecting a USB drive to the USB port located on your Air Track.



- Insert a USB drive containing the firmware upgrade into the USB port on the back of the main unit.
- Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The main unit will turn off automatically after completing the firmware upgrade.
  When software is upgraded, settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.
- If the firnware fails to upgrade, we recommend formatting the USB data in FAT16 and trying again.
- For upgrading purposes, do not format USB data in NTFS because it is not a supported file system.
- Depending on the manufacturer, the USB may not be supported.

troubleshooting

Before requesting service, please check the following.

Symptom	Check	Remedy
The unit will not turn on.	• Is the power cord plugged into the outlet?	• Connect the power plug to the outlet.
A function does not work when the button is pressed.	• Is there static electricity in the air?	• Disconnect the power plug and connect it again.
Sound is not produced.	• Is the unit properly connected to your TV? • Is the Mute function on? • Is the volume set to minimum?	• Connect it correctly. • Press the Mute button to cancel the function. • Adjust the volume.
Picture does not appear on a TV when the function is selected.	• Is the TV connected properly?	• Connect it correctly.
Remote control does not work.	• Are the batteries drained? • Is the distance between remote control and main unit too far?	• Replace with new batteries. • Operate at a close distance.
The sound from the left/right channels is reversed.	• Are the left/right audio output cables from the TV connected properly?	• Check the left/right channel and connect it/them correctly.

appendix

SPECIFICATIONS

GENERAL	Power supply		AC 120V, 60Hz
	Standby power consumption		0.75W
	Power consumption	Main unit	45W
	Weight	Main unit	5.01 lbs
	Dimensions (W x H x D)	Main unit	37.66 x 3.62 x 1.77 inches
	Operating temperature range		+41°F to +95°F
	Operating humidity range		10 % to 75 %
AMPLIFIER	Rated output power	Main unit	60W/CH, 4Ω, THD = 10%, 1kHz
	Input sensitivity/Impedance		900mV/20KΩ
	S/N ratio (analog input)		70dB
	Separation(1kHz)		70dB

FREQUENCY RESPONSE	Analog input	80Hz~20kHz(±3dB)
	Digital input/48kHz PCM	80Hz~20kHz(±3dB)

***** S/N ratio, distortion, separation and usable sensitivity are based on measurement using AES (Audio Engineering Society) guidelines.

*****: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

WARRANTY

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by Samsung Electronics America, Inc. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) Year Parts and Labor*

(*90 Days Parts and Labor for Commercial Use)

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

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To obtain warranty hardware service, please contact SAMSUNG customer care center.

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